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ABSTRACT

A process for preparing cyclic organohydrogensiloxanes is disclosed. The process comprises the steps of (A) and (B). Step (A) comprising contacting a silane of the formula RHSiCl_2 , where R is selected from alkyl radicals having 1 to 12 carbon atoms and aryl radicals, with water to form a hydrolyzate. The hydrolyzate formed in step (A) comprising cyclic organohydrogensiloxanes and linear organohydrogensiloxanes. Step (B) comprising contacting the hydrolyzate formed in (A) with an acidic rearrangement catalyst in the presence of an inert liquid diluent to increase the ratio of the cyclic organohydrogensiloxanes to linear organohydrogensiloxanes in the hydrolyzate. The process further characterized by that the acidic rearrangement catalyst is an organic compound containing a strong acid group which is dissolved in the inert diluent present.